

12/01

Work Order ID 151354

Friday, September 23, 2016 2:48:30 PM

151354

Page 1

Item ID: 647.2601 Accept *N900040100* Setup Start *NS1*
Revision ID: Stop *NS2*
Item Name: 407 Cable Cutter System, High
Start Date: 9/29/2016 Start Qty: 1.00 *1* Cust Item ID:
Required Date: 9/29/2016 Req'd Qty: 1.00 *1* Customer:
Reference:

Approvals: Process Plan: DAS 21 9-89 Date: SEP 26 2016 Pooling: _____ Date: _____ Run Start *NR1*
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.2600	N/C								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 647.2601								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

JAN 09 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐			FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		
OTHER :					

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Revision ID: Stop ***NS2***
Item Name: 407 Cable Cutter System, High
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Required Date: 9/29/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00				DAS 27 9-89	DAS 28 9-89		
Packaging	Identify and pack for shipping as per PPP 647.2601 Location : FG101								
									JAN 10 2017
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00					DAS 21 9-89		JAN 10 2017
Quality Control									
						DAS 21 9-89			
									VS 17/1/10
						DAS 21 9-89			

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Description Work Order Deviation		Disposition		Completed By																	
				Lead hand / Supervisor Approval Verification																	
				QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																			
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OTHER :																					

Picklist Print

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Page 1

Work Order ID: 151354

151354

Parent Item: 647.2601

647 2601

Parent Item Name: 407 Cable Cutter System, High

Start Date: 9/29/2016

Required Date: 9/29/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.09.21 NEW ISSUE DD VERF:JLM IPP
REV:B 14.02.05 ADDED ITEM 26 DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

600.0990		Purchased		No		110	Each	23.0000	1	1			
----------	--	-----------	--	----	--	-----	------	---------	---	---	--	--	--

600 0990

Magnabond 6398 Part A Size 112 ml

**

DAS
6
9-89

JAN 0 6 2017

DAS
28
9-89

Location	Loc Qty	Loc Code
CA2	12	
M135600	12	
PKG	11	
M134167	1	
M134249	2	
M135213	8	

1

600.0991		Purchased		No		110	Each	22.0000	1	1			
----------	--	-----------	--	----	--	-----	------	---------	---	---	--	--	--

600 0991

Magnabond 6398 Part B Size 112 ml

**

DAS
6
9-89

JAN 0 6 2017

DAS
28
9-89

Location	Loc Qty	Loc Code
CA2	12	
m135600	12	
PKG	10	
m134167	1	
m134249	1	
m135213	8	

1

600.1012		Purchased		No		110	Each	15.0000	1	1			
----------	--	-----------	--	----	--	-----	------	---------	---	---	--	--	--

600 1012

Sealant PR1425B2 (#654 sem)

**

DAS
6
9-89

JAN 0 5 2017

DAS
28
9-89

Location	Loc Qty	Loc Code
cck017	15	
m135407	1	
m135530	8	
m135600	6	

136192

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation		Disposition			
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
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Picklist Print

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Work Order ID: 151354

151354

Parent Item: 647.2601

647 2601

Parent Item Name: 407 Cable Cutter System, High

Start Date: 9/29/2016

Required Date: 9/29/2016

Start Qty: 1.00

Required Qty: 1.00

601.2045 Purchased No 110 Each

14.0000 1 1

601 2045

RTV (LOCTITE 598)McMaster p/n: 6641A41

**

DAS
6
9-89

JAN 05 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK096

6

m135628

6

GA

8

m134260

8

136171

646.9602 Manufactured No 110 Each

25.0000 1 1

646 9602

Lower Cutter Assembly High

**

DAS
6
9-89

JAN 05 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK037

12

109598

12

CCK038

13

105805

3

126804

10

1

647.0112 Manufactured No 110 Each

4.0000 6 6

647 0112

Strut Bracket

**

DAS
6
9-89

JAN 06 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK107

4

148232

4

151894

647.0116 Manufactured No 110 Each

6.0000 1 1

647 0116

Doubler

**

DAS
6
9-89

JAN 06 2017

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK107

6

126234

6

150274

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Shop Packet Print

Page 2

DQA: _____ Date: _____



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Picklist Print

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Work Order ID: 151354

151354

Parent Item: 647.2601

647 2601

Parent Item Name: 407 Cable Cutter System, High

Start Date: 9/29/2016

Required Date: 9/29/2016

Start Qty: 1.00

Required Qty: 1.00

647.0210 Manufactured No 110 Each 2.0000 1 1
647 0210
 Rail

DAS
6
9-89

JAN 05 2017

DAS
23
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK089

2

91440

2

151662

647.0310 Manufactured No 110 Each 12.0000 1 1
647 0310
 Channel

DAS
6
9-89

JAN 05 2017

DAS
23
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK090

12

144607

12

151660

647.2010 Manufactured No 110 Each 60.0000 3 3
647 2010
 Upper Strut

DAS
6
9-89

JAN 05 2017

DAS
23
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK094

60

106783

27

91895

29

m123185

1

m125082

3

1
2

647.4501 Manufactured No 110 Each 14.0000 1 1
647 4501
 Cutter Assembly

JAN 06 2017

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck059

14

108916

2

123151

12

1

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Page 3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition																					
								Completed By																	
								Lead hand / Supervisor Approval Verification																	
								QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : ☐																			

Picklist Print

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Work Order ID: 151354

151354

Parent Item: 647.2601

647 2601

Parent Item Name: 407 Cable Cutter System, High

Start Date: 9/29/2016

Required Date: 9/29/2016

Start Qty: 1.00

Required Qty: 1.00

647.4611 Manufactured No 110 Each

12.0000 1 1

DAS
6
9-89

647 4611

Deflector

**

Location

Loc Qty

CCK040

12

104444

5

122911

5

99919

1

M123185

1

Loc Code

DAS
27
9-89

647.4711

Manufactured No

110 Each

24.0000 1 1

DAS
6
9-89

647 4711

Doubler

**

Location

Loc Qty

CCK081

24

91290

14

m123185

1

m126249

9

Loc Code

DAS
27
9-89

647.4712

Manufactured No

110 Each

24.0000 1 1

DAS
6
9-89

647 4712

Doubler

**

Location

Loc Qty

cck082

24

91273

12

m123185

1

m126249

11

Loc Code

DAS
27
9-89

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Page 4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Cross tube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
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										QC / QA Coordinator Approval															
Root Cause				FAULT CATEGORY																					
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐															
OTHER : _____																									

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Page 5

Work Order ID: 151354

151354

Parent Item: 647.2601

647 2601

Parent Item Name: 407 Cable Cutter System, High

Start Date: 9/29/2016

Required Date: 9/29/2016

Start Qty: 1.00

Required Qty: 1.00

647.4713 Manufactured No 110 Each

58.0000 1 1

647 4713

Bracket

DAS
27
9-89

Location

Loc Qty

CCK113	58
90584	46
m123185	1
m126249	11

Loc Code

JAN 0 6 2017

DAS
28
6
9-89

647.4714 Manufactured No 110 Each

24.0000 1 1

647 4714

Clip LH

DAS
27
9-89

Location

Loc Qty

CCK113	24
91270	11
m126249	13

Loc Code

JAN 0 6 2017

DAS
28
6
9-89

647.4715 Manufactured No 110 Each

24.0000 1 1

647 4715

Clip RH

DAS
27
9-89

Location

Loc Qty

CCK113	24
91284	10
m123185	1
m126249	13

Loc Code

JAN 0 6 2017

DAS
28
6
9-89

647.4716 Manufactured No 110 Each

22.0000 1 1

647 4716

Spacer

DAS
27
9-89

Location

Loc Qty

CCK113	22
91274	10
m123185	1
m126249	11

Loc Code

JAN 0 6 2017

DAS
28
6
9-89

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Page 5

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

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Page 6

Work Order ID: 151354

151354

Parent Item: 647.2601

647 2601

Parent Item Name: 407 Cable Cutter System, High

Start Date: 9/29/2016

Required Date: 9/29/2016

Start Qty: 1.00

Required Qty: 1.00

647.4717 Manufactured No

110 Each 34.0000 1 1

647 4717

Clip Aft LH

**

JAN 06 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK113

34

91272

10

m123185

1

m126249

23

647.4718 Manufactured No

110 Each 23.0000 1 1

647 4718

Clip Aft RH

**

JAN 06 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK113

23

91285

12

m126249

11

647.4719 Manufactured No

110 Each 68.0000 2 2

647 4719

Clip Fwd

**

JAN 06 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK113

68

134239

30

m123185

2

m126249

36

648.7801 Manufactured No

110 Each 25.0000 2 2

648 7801

Grounding Cable Assembly

**

JAN 06 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

cck120

25

91265

23

m123185

2

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Page 6

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																		
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																		
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Date :	Step #:	QTY Effective :		MRB (QSI042) Approval																	
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Root Cause		FAULT CATEGORY																			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐																
OTHER : ☐																					

Picklist Print

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Work Order ID: 151354

151354

Parent Item: 647.2601

647 2601

Parent Item Name: 407 Cable Cutter System, High

Start Date: 9/29/2016

Required Date: 9/29/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-11A Purchased No

110 Each 75.0000 10 10

AN3-11A

**

Bolt

DAS
27
9-89

JAN 05 2017

DAS 28
6 9-89

Location

Loc Qty

Loc Code

ST349

75

m135390

75

133855

AN3-4A Purchased No

110 Each 358.0000 2 2

AN3-4A

**

Bolt

DAS
27
9-89

JAN 05 2017

DAS 28
6 9-89

Location

Loc Qty

Loc Code

over003

250

m135704

250

2

ST350

108

m134955

108

CCR264SS3-04 Purchased No

110 Each 272.0000 32 32

CCR264SS3-04

**

Rivet

DAS
27
9-89

JAN 05 2017

DAS 28
6 9-89

Location

Loc Qty

Loc Code

CCK003

272

123785

272

32

CCR264SS3-3 CCR264SS3-03 Purchased No

110 Each 129.0000 6 6

CCR264SS3-3

**

Cherry Rivet

DAS
27
9-89

JAN 05 2017

DAS 28
6 9-89

Location

Loc Qty

Loc Code

FP001

129

m128818

129

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
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				Completed By	
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OTHER : ☐					

Picklist Print

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Work Order ID: 151354

151354

Parent Item: 647.2601

647 2601

Parent Item Name: 407 Cable Cutter System, High

Start Date: 9/29/2016

Required Date: 9/29/2016

Start Qty: 1.00

Required Qty: 1.00

CR3212-4-3 Purchased No

110 Each 100.0000 4 4

CR3212-4-3

Cherry Rivet

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK003

100

m135408

100

**

JAN 05 2017

CR3212-4-6 CR3212-4-06 Purchased No

110 Each 0.0000 2 2

CR3212-4-6

Cherry Rivet

DAS
27
9-89

Location

Loc Qty

Loc Code

ST320

59

m133577

8

m134370

51

**

JAN 05 2017

CR3213-4-1 Purchased No

110 Each 59.0000 7 7

CR3213-4-1

Cherry Rivet

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK003

50

m134058

50

over003

100

m135704

100

**

JAN 05 2017

CR3213-4-2 Purchased No

110 Each 150.0000 38 38

CR3213-4-2

Cherry Rivet

DAS
27
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
☐ OTHER : _____					

Picklist Print

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Work Order ID: 151354

151354

Parent Item: 647.2601

647 2601

Parent Item Name: 407 Cable Cutter System, High

Start Date: 9/29/2016

Required Date: 9/29/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-3 Purchased No

110 Each 210.0000 38 38

CR3213-4-3

Rivet, Cherry

**

JAN 05 2017

DAS 6 28
9-89 9-89

DAS 27
9-89

Location	Loc Qty	Loc Code
CCK003	100	
m135470	100	
ST319	110	
m131340	10	
m135135	100	

136042

CR3213-4-4 Purchased No

110 Each 441.0000 7 7

CR3213-4-4

Rivet, Cherry

**

JAN 05 2017

DAS 6 28
9-89 9-89

DAS 27
9-89

Location	Loc Qty	Loc Code
CCK003	400	
M135408	100	
M135536	300	
ST319	41	
M130388	35	
M134962	6	

136301

CR3213-4-5 Purchased No

110 Each 225.0000 16 16

CR3213-4-5

Rivet

**

JAN 05 2017

DAS 6 28
9-89 9-89

DAS 27
9-89

Location	Loc Qty	Loc Code
CCK003	100	
M129913	100	
ST319	125	
M129913	125	

16

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐			FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		
OTHER : _____					

Picklist Print

Friday, September 23, 2016 2:48:29 PM

Page 10

Work Order ID: 151354

151354

Parent Item: 647.2601

647 2601

Parent Item Name: 407 Cable Cutter System, High

Start Date: 9/29/2016

Required Date: 9/29/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-9 Purchased No

110 Each 76.0000 2 2

CR3213-4-9

Rivet

**

JAN 05 2017

DAS 6 28 9-89 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST319

76

m128199

76

153856

CR3242-4-4 Purchased No

110 Each 356.0000 1 1

CR3242-4-4

RIVET

**

JAN 05 2017

DAS 6 28 9-89 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST317

356

104322

356

1

HL19PB-5-4 Purchased No

110 Each 79.0000 4 4

HI 19PB-5-4

Hi-Lok Pin

**

JAN 05 2017

DAS 6 28 9-89 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST561

79

123301

79

4

HL70-5 Purchased No

110 Each 84.0000 4 4

HI 70-5

Hi-Lok Collar

**

JAN 05 2017

DAS 6 28 9-89 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST562

84

123185

4

123301

80

4

MS21042-08 MS21042L08 Purchased No

110 Each 0.0000 10 10

MS21042-08

USE MS21042L08

**

136199

JAN 05 2017

DAS 6 28 9-89 9-89

DAS 27 9-89

Friday, September 23, 2016 2:48:29 PM

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Page 10

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Page 11

Friday, September 23, 2016 2:48:29 PM

Work Order ID: 151354

151354

Parent Item: 647.2601

647 2601

Parent Item Name: 407 Cable Cutter System, High

Start Date: 9/29/2016

Required Date: 9/29/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042-3 Purchased No

110 Each 0.0000 14 14

MS21042-3

**

JAN 05 2017

Nut

MS21059-3 Purchased No

110 Each 469.0000 10 10

MS21059-3

**

JAN 05 2017

Nut Plate

Location

Loc Qty

Loc Code

ST301

469

123023

50

123900

419

MS21059L08 Purchased No

110 Each 121.0000 1 1

MS21059L08

**

JAN 05 2017

Nut

Location

Loc Qty

Loc Code

ST300

121

m134634

21

m134943

100

MS21071L3 Purchased No

110 Each 115.0000 8 8

MS21071L3

**

JAN 05 2017

ANCHOR NUT

Location

Loc Qty

Loc Code

S299

100

125654

100

ST299

15

m129702

15

MS24694-S8 Purchased No

110 Each 80.0000 2 2

MS24694-S8

**

JAN 05 2017

Screw

Location

Loc Qty

Loc Code

ST285

80

M134654

80

Friday, September 23, 2016 2:48:29 PM

Shop Packet Print

Page 11

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																		
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																		
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Date :	Step #:	QTY Effective :		MRB (QSI042) Approval																	
Description Work Order Deviation		Disposition		Completed By																	
				Lead hand / Supervisor Approval Verification																	
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Root Cause		FAULT CATEGORY																			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐																
OTHER :																					

Picklist Print

Page 12

Friday, September 23, 2016 2:48:29 PM

Work Order ID: 151354

151354

Parent Item: 647.2601

647 2601

Parent Item Name: 407 Cable Cutter System, High

Start Date: 9/29/2016

Required Date: 9/29/2016

Start Qty: 1.00

Required Qty: 1.00

MS25036-109

Purchased

No

110

Each

77.0000

1

1

MS25036-109

Terminal

**

JAN 05 2017

DAS
28
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST282

77

123390

50

m126249

27

MS27039-08-06

Purchased

No

110

Each

72.0000

2

2

MS27039-08-06

Screw

**

JAN 05 2017

DAS
28
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST278

72

m126249

72

MS27039-08-11

Purchased

No

110

Each

134.0000

1

1

MS27039-08-11

SCREW

**

JAN 05 2017

DAS
28
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST278

134

m134076

134

MS27039-08-13

Purchased

No

110

Each

87.0000

21

21

MS27039-08-13

Screw

**

JAN 05 2017

DAS
28
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST278

87

124326

87

Friday, September 23, 2016 2:48:29 PM

Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
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				Completed By	
				Lead hand / Supervisor Approval Verification	
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OTHER : ☐					

Picklist Print

Page 13

Friday, September 23, 2016 2:48:29 PM

Work Order ID: 151354

151354

Parent Item: 647.2601

647 2601

Parent Item Name: 407 Cable Cutter System, High

Start Date: 9/29/2016

Required Date: 9/29/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-08

Purchased

No

110

Each

168.0000

4

4

MS27039-1-08

Screw

**

JAN 05 2017

DAS 28
6 9-89

Location

Loc Qty

Loc Code

FP001

63

m128636

63

GA

72

125654

1

m128636

71

ST281

33

m134762

33

135864

DAS 27
9-89

MS27039-1-09

Purchased

No

110

Each

221.0000

4

4

MS27039-1-09

Screw

**

JAN 05 2017

DAS 28
6 9-89

Location

Loc Qty

Loc Code

FP001

34

18057

34

GA

36

124859

36

ST280

151

m135056

151

125654

DAS 27
9-89

MS27039-1-11

Purchased

No

110

Each

59.0000

1

1

MS27039-1-11

Screw

**

JAN 05 2017

DAS 28
6 9-89

Location

Loc Qty

Loc Code

GA

20

125654

13

9662

7

ST280

39

m134738

39

DAS 27
9-89

Friday, September 23, 2016 2:48:30 PM

Shop Packet Print

Page 13

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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Design ☐	Operator ☐																																																																				
Doc/Data ☐	Offset/Setup ☐																																																																				
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Internal Transport ☐	Poor Information ☐																																																																				
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Misidentified ☐	Past Due ☐																																																																				
Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																																																																		
Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																																																																		
Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																																																																		
Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																																																																		
Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐																																																																		
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Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐																																																																		
Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐																																																																		
Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐																																																																		
			OTHER : ☐																																																																		

Picklist Print

Friday, September 23, 2016 2:48:30 PM

Work Order ID: 151354

151354

Parent Item: 647.2601

647 2601

Parent Item Name: 407 Cable Cutter System, High

Start Date: 9/29/2016

Required Date: 9/29/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-12

Purchased

No

110

Each

100.0000

7

7

MS27039-1-12

Screw

**

JAN 0 5 2017

DAS
628
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST280

100

m135566

100

7

MS27039-1-19

Purchased

No

110

Each

83.0000

4

4

MS27039-1-19

Screw

**

JAN 0 5 2017

DAS
628
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

82

m134134

82

ST280

1

m135058

1

13688

NAS1149F0332P

Purchased

No

110

Each

1,792.000

46

46

NAS1149F0332P

Washer

**

JAN 0 5 2017

DAS
28
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

282

m133709

282

ST262

1510

m135544

1510

135945

NAS1149FN832P

Purchased

No

110

Each

2,603.000

30

30

NAS1149FN832P

Washer

**

JAN 0 5 2017

DAS
28
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

1537

M133769

89

M135058

1448

ST263

1066

M135603

1066

136182

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td style="border: none;"></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																
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				QC / QA Coordinator Approval																																																																
Root Cause		FAULT CATEGORY																																																																		
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Environment ☐	No Re-verification ☐																																																																			
Design ☐	Operator ☐																																																																			
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Misaligned/off center ☐	Turning Sequence ☐																																																																			

Picklist Print

Page 15

Friday, September 23, 2016 2:48:30 PM

Work Order ID: 151354

151354

Parent Item: 647.2601

647 2601

Parent Item Name: 407 Cable Cutter System, High

Start Date: 9/29/2016

Required Date: 9/29/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1835-08

Purchased

No

110

Each

18.0000

2

2

NAS1835-08

Insert

JAN 05 2017

Location

Loc Qty

Loc Code

st549

18

m135127

18

DAS
27
9-89

DAS
28
9-89
DAS
6
9-89

DQA: _____ Date: _____

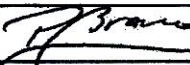
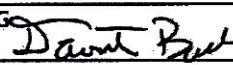
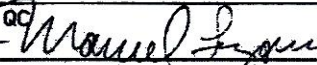


WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

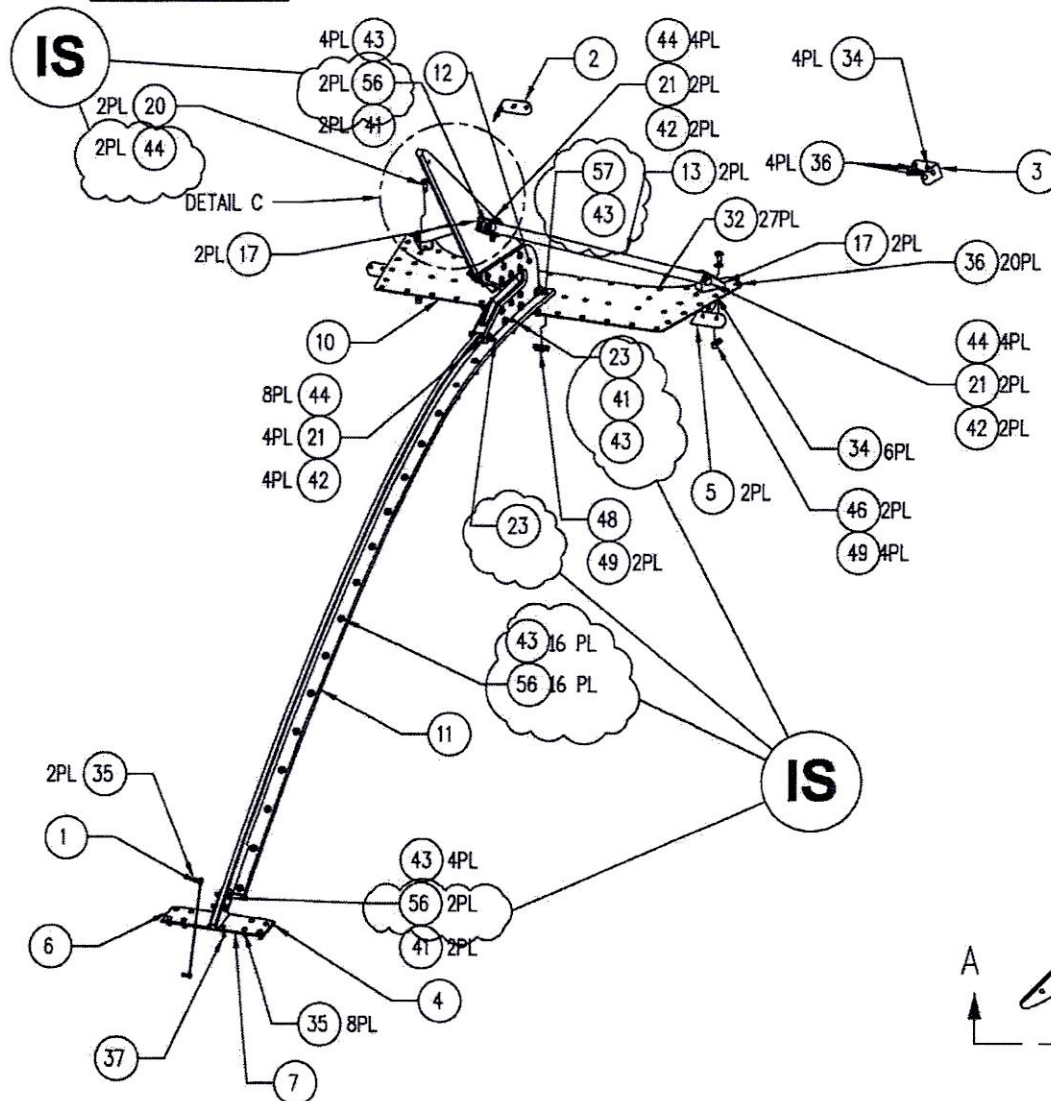
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
☐ OTHER : _____					

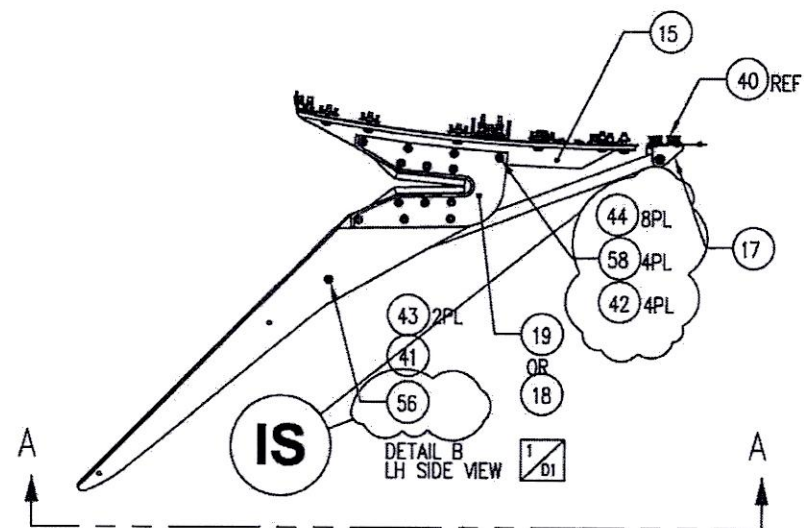
APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 03090				SHEET 1 OF 2	
	DWG NO. 647.2600	REV: N/C	PREPARED BY R. ROSANO	DATE: 04/28/11	EFFECT ON DWG ☐ INC. ☒ UNINC.	
	DWG TITLE: 407 CABLE CUTTER KIT					
	APPROVED BY: ENGR 	MFG 	QC 	EFF: CURRENT ORDER		
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE	REASON: ADDED TO AND REVISED BOM, REVISED CALLOUTS IN DRAWING VIEWS					

58	A	601.1948	4	4	SCREW	MS27039-1-19	
57	A	601.2893	1	1	SCREW	MS27039-0811	
56	A	601.2988	21	21	SCREW	MS27039-0813	
44	R	601.1607	46	46	WASHER	NAS1149F0332P	
43	R	601.2764	36	36	WASHER	NAS1149FN832P	
42	R	601.2943	14	14	LOCKNUT	MS21042-3	
41	R	601.2973	10	10	LOCKNUT	MS21042-08	
38	R	601.3305	4	4	HI-LOK PIN	HL19PB-5-4	
24	D	601.2765	26	26	SCREW	MS27039-0819	
1	R	648.7801	2	2	GROUNDING CABLE ASSY		
F/N TC	PART NUMBER	2602	2601		DESCRIPTION	MATERIAL	SPECIFICATION
			QTY				
DOCUMENTS EFFECTED:						CHANGE CATEGORY	DER REVIEW REQUIRED
☐ MDL ☒ INSTALL INSTRUC ☒ ICA ☒ BOM						☐ MAJOR ☒ MINOR	☐ YES ☒ NO

SHEET 2 IS:



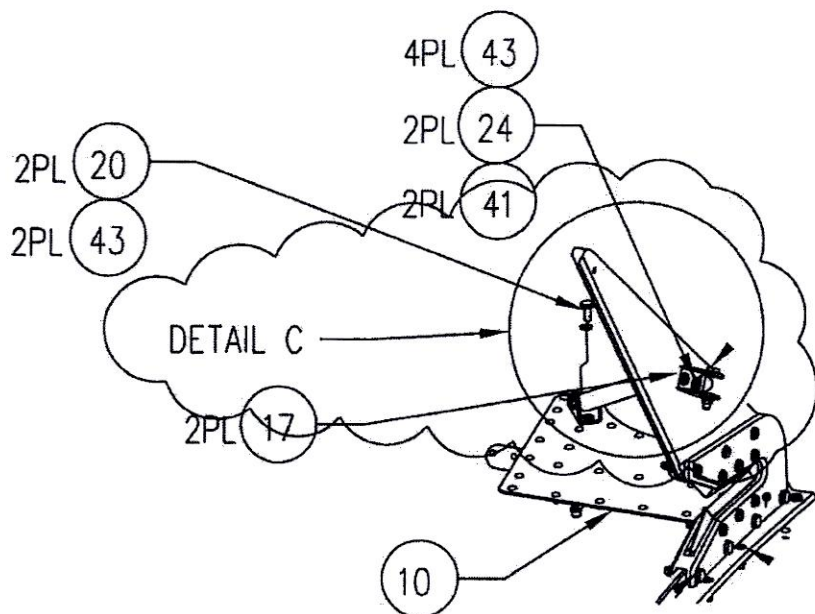
SHEET 3, ZONE D3 IS:



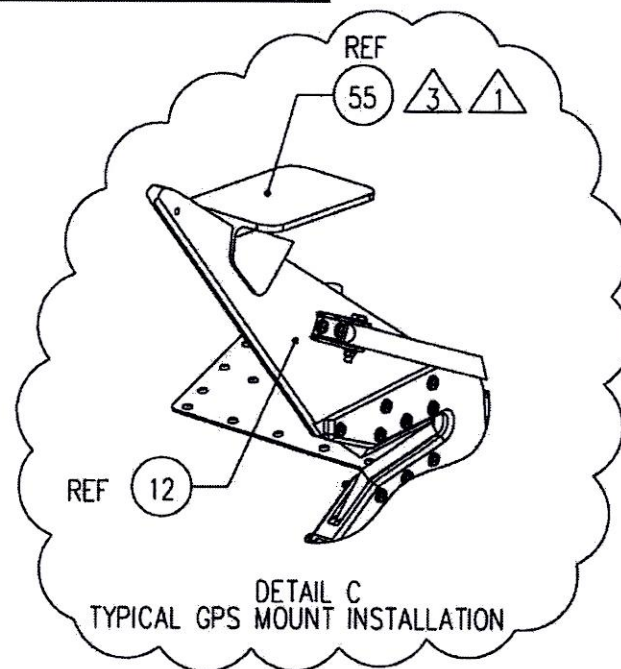
F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL	SPECIFICATION

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 03049				SHEET 1 OF 1	
	DWG NO. 647.2600	REV: N/C	PREPARED BY J. JACKSON	DATE: 01/25/11	EFFECT ON DWG ☐ INC. ☒ UNINC.	
	DWG TITLE: 407 CABLE CUTTERS KIT					
APPROVED BY: ENGR <i>[Signature]</i>		MFG <i>[Signature]</i>		QC <i>[Signature]</i>		EFF: NEXT ORDER
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: REVISED DRAWING VIEWS.				

SHEET 2, ZONE A4 IS:



SHEET 2, ZONE B2 IS:



F/N	TC	PART NUMBER	.2602	.2601	DESCRIPTION				MATERIAL	SPECIFICATION
			QTY							
DOCUMENTS EFFECTED:					☐ MDL ☐ INSTALL INSTRU ☐ ICA ☐ BOM			CHANGE CATEGORY	DER REVIEW REQUIRED	
								☐ MAJOR ☒ MINOR	☐ YES ☒ NO	

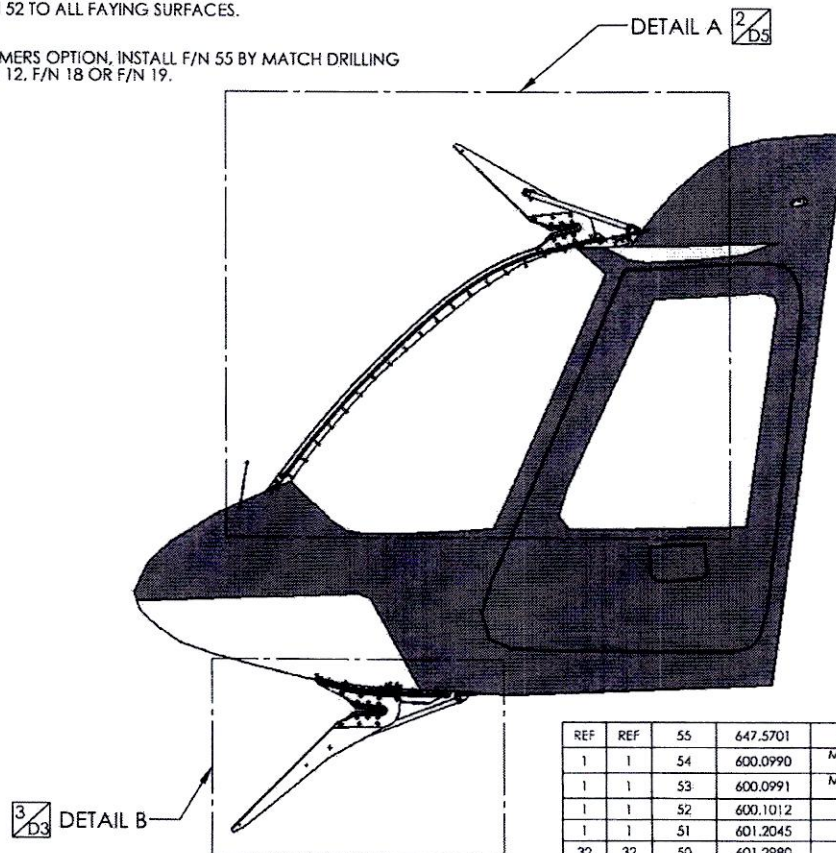
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 51 TO FILL GAPS AND FILLET EDGES
- 2 APPLY F/N 52 TO ALL FAYING SURFACES.
- 3 AT CUSTOMER'S OPTION, INSTALL F/N 55 BY MATCH DRILLING ONTO F/N 12, F/N 18 OR F/N 19.

UNINCORPORATED ECN(S)

03049, 03090, 03218,



647.2601 SHOWN
647.2602 TYP

REF	REF	SS	647.5701	GPS MOUNT KIT		
1	1	54	600.0990	MAGNOBOND 6398		
1	1	53	600.0991	MAGNOBOND 6398		
1	1	52	600.1012	SEALANT		
1	1	51	601.2045	RTV		
32	32	50	601.2980	NUTPLATE RIVET	CCR264SS-3-04	
6	6	49	601.2207	NUTPLATE RIVET	CCR264SS-3-03	
1	1	48	601.2356	NUTPLATE	MS21059L08	
10	10	47	601.1900	NUTPLATE	MS21059-3	
8	8	46	601.2957	NUTPLATE	MS21071L3	
2	2	45	601.2638	WASHER	NAS1149F0432P	
37	37	44	601.1607	WASHER	NAS1149F0332P	
55	55	43	601.2764	WASHER	NAS1149F0332P	
10	10	42	601.2943	LOCKNUT	MS21042-3	
27	27	41	601.2973	LOCKNUT	MS21042-08	
2	2	40	601.2984	INSERT	NAS1635-08	
2602	2601	FIND #	PART #	DESCRIPTION	MATL	SPEC.

4	4	39	601.3112	HI-LOK COLLAR	HL70-5	
4	4	38	601.3113	HI-LOK PIN	HL19PB-5-14	
1	1	37	601.2983	RIVET	CR3212-5-4	
38	38	36	601.1039	RIVET	CR3213-4-2	
10	10	35	601.2991	RIVET	CR3213-4-6	
19	19	34	601.0790	RIVET	CR3213-4-3	
7	7	33	601.1915	RIVET	CR3213-4-4	
27	27	32	601.1183	RIVET	CR3213-4-5	
2	2	31	601.1339	RIVET	CR3212-4-6	
4	4	30	601.1065	RIVET	CR3212-4-3	
7	7	29	601.2979	RIVET	CR3213-4-1	
2	2	28	601.3114	SCREW	MS27039-1-06	
2	2	27	601.1621	SCREW	MS27039-1-08	
9	9	26	601.1953	SCREW	MS27039-0812	
1	1	25	601.1949	SCREW	MS27039-1-11	
26	26	24	601.2765	SCREW	MS27039-0819	
2	2	23	601.2535	SCREW	MS24694C9	
4	4	22	601.3069	SCREW	MS27039-1-09	
10	10	21	601.2826	BOLT	AN3-11A	
2	2	20	601.3118	BOLT	AN3-3	
		19	646.9602	LOWER CUTTER ASSY HIGH		
1		18	646.9603	LOWER CUTTER ASSY LOW		
6	6	17	647.0112	STRUT BRACKET		
1	1	16	647.0116	DOUBLER		
1	1	15	647.0210	RAIL		
1	1	14	647.0310	CHANNEL		
3	3	13	647.2010	STRUT		
1	1	12	647.4501	CUTTER ASSY		
1	1	11	647.4611	DEFLECTOR		
1	1	10	647.4711	DOUBLER		
1	1	9	647.4712	DOUBLER		
1	1	8	647.4713	BRACKET		
1	1	7	647.4714	CLIP LH		
1	1	6	647.4715	CLIP RH		
2	2	5	647.4719	CLIP FWD		
1	1	4	647.4716	SPACER		
1	1	3	647.4717	CLIP-AFT LH		
1	1	2	647.4718	CLIP-AFT RH		
1	1	1	647.3201	GROUNDING CABLE ASSY		
			647.2602	407 CABLE CUTTER KIT LOW		
			647.2601	407 CABLE CUTTER KIT HIGH		
2602	2601	FIND #	PART #	DESCRIPTION	MATL	SPEC.

QTY		ORIGINAL DATE		PARTS LIST	
NEXT ASSY (S)		10-27-09		APICAL INDUSTRIES	
		DRAWN BY: J. BAWEL		2608 TEMPLE HEIGHTS DR.	
		CHECKED BY: J. BAWEL		OCEANSIDE, CA. 92056-3512 (760)724-5300	
		DRAWING APPROVAL		407 CABLE CUTTER KIT	
		CONTRACT NO.		807.2600	
		SPECIES OTHERWISE SPECIFIED		SCALE NONE	
		DIMENSIONS ARE IN INCHES		SHEET 1 OF 3	
		2 PLACE DECIMALS ± .05			
		ANGLES ± .5°			

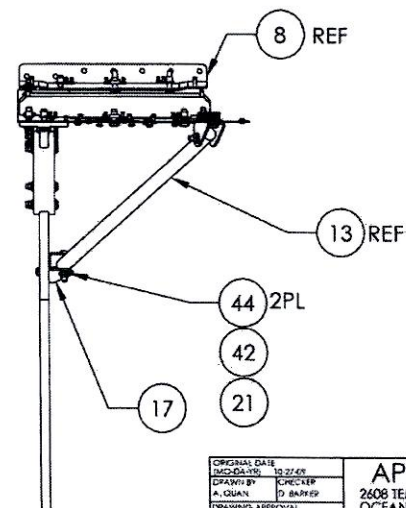
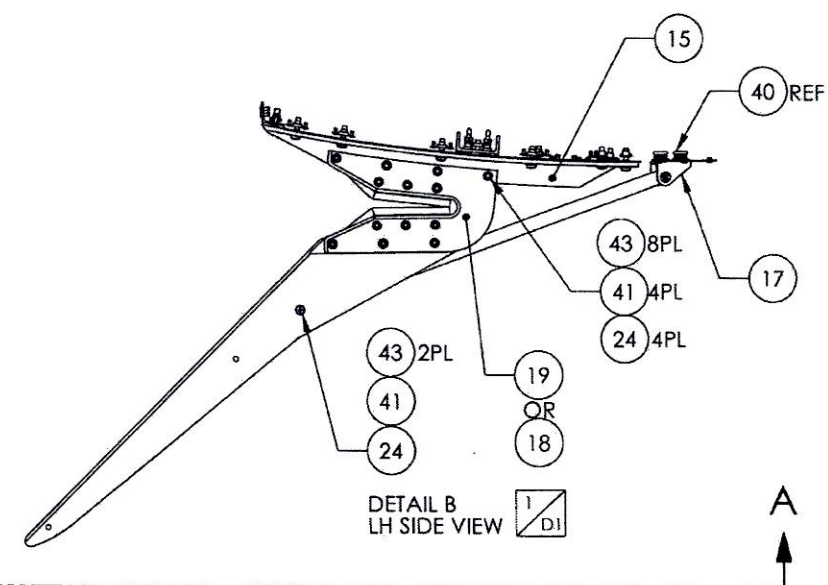
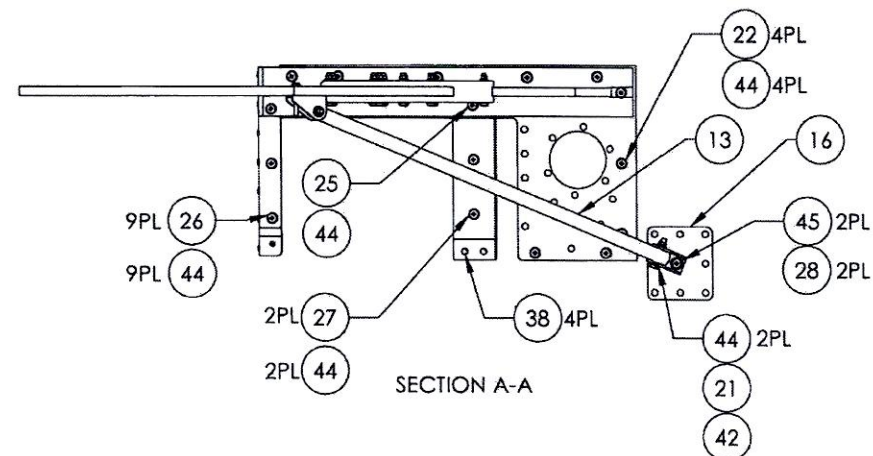
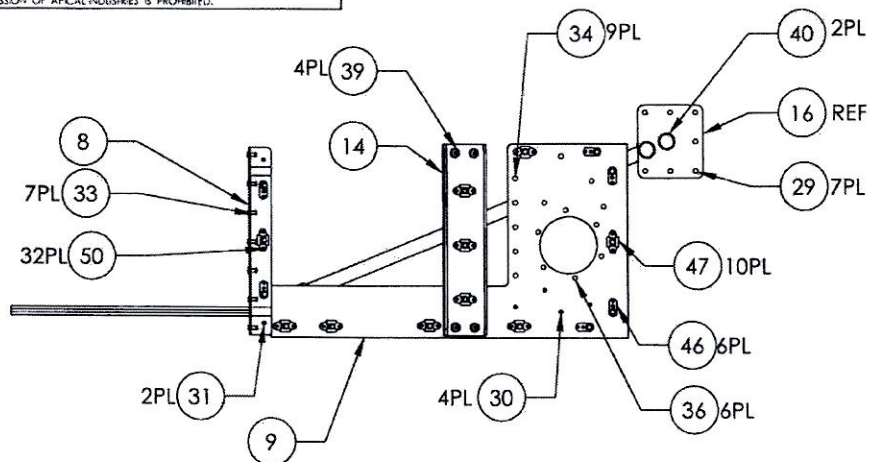
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



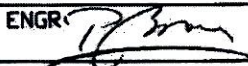
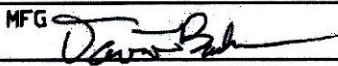
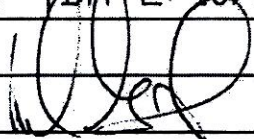
ORIGINAL DATE 10/24/97	APICAL INDUSTRIES		
ISSUED BY C. QUINN	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA 92056-3512 (760)/724-5300		
DESIGNED BY D. BARNER			
DRAWING APPROVAL P. HANCOCK			
DATE 10/27/97			
CONTRACT NO.	407 CABLE CUTTER KIT		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES 1 PLACE DECIMALS 1/16" 2 PLACE DECIMALS 1/32" 3 PLACE DECIMALS 1/64" ANGLES ARE IN DEGREES			
SIZE	CAGE CODE 07PM6	DWG NO. 647.2600	REV N/C
SCALE NONE		SHEET 2 OF 3	

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



ORIGINAL DATE 10-27-06		APICAL INDUSTRIES	
DRAWN BY A. QUAN		2608 TEMPLE HEIGHTS DR.	
DRAWING APPROVAL 10-27-06		OCEANSIDE, CA. 92056-3512 (760)724-5300	
CONTRACT NO.		407 CABLE CUTTER KIT	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.03 3 PLACE DECIMALS ±.012 ANGLES ±.5°		SUB CODE B 07MZ6	REV N/C
SCALE NONE		DWG. NO. 647.2600	SHEET 3 OF 3

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 03218				SHEET 1 OF 3		
	DWG NO. 647.2600		REV: N/C		PREPARED BY: R. ROSANO	DATE: 10/24/11	EFFECT ON DWG ☐ INC. ☒ UNINC.
	DWG TITLE: 407 CABLE CUTTER KIT						
	APPROVED BY: ENGR. 		MFG. 		QC. 	EFF: CURRENT ORDER	
TRANSACTION CODES (TC) A-ADD C-CREATE R-REVISE D-DELETE		REASON: ADDED TO AND REVISED BOM, REVISED CALLOUTS IN DRAWING VIEWS, ADDED DELTA NOTE 4 & 5, REVISED DELTA NOTE 1, ADDED DETAIL F, ADDED SHEET 4					

REFERENCE ONLY

60	A	601.3447	1	1	TERMINAL	MS25036-109	△5
59	A	601.3071	2	2	RIVET	CR3213-4-9	
52	R	600.1012	1	1	SEALANT		△2
51	R	601.2045	1	1	RTV		△1
45	D	601.2638	2	2	WASHER	NAS1149F0432P	
43	R	601.2764	30	30	WASHER	NAS1149FN832P	
37	R	601.3446	1	1	RIVET	CR3242-4-4	
35	D	601.2991	10	10	RIVET	CR3213-4-6	
34	R	601.0790	38	38	RIVET	CR3213-4-3	
32	R	601.1183	16	16	RIVET	CR3213-4-5	
28	R	601.3000	2	2	SCREW	MS27039-0806	
27	R	601.1621	4	4	SCREW	MS27039-1-08	
26	R	601.1953	7	7	SCREW	MS27039-1-12	
23	R	601.3153	2	2	SCREW	MS24694S8	
20	R	601.2823	2	2	BOLT	AN3-4A	
1	R	648.7801	2	2	GROUNDING CABLE ASSY		△5
F/N	TC	PART NUMBER	2602	2601	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY				

DOCUMENTS EFFECTED:	☐ MDL ☒ INSTALL INSTRUC ☒ ICA ☒ BOM	CHANGE CATEGORY ☐ MAJOR ☒ MINOR	DER REVIEW REQUIRED ☐ YES ☒ NO
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APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 03090				SHEET 1 OF 2	
	DWG NO. 647.2600	REV: N/C	PREPARED BY R. ROSANO	DATE: 04/28/11	EFFECT ON DWG ☐ INC. ☒ UNINC.	
	DWG TITLE: 407 CABLE CUTTER KIT					
APPROVED BY: ENGR. <i>[Signature]</i>		MFG. <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: CURRENT ORDER		
TRANSACTION CODES (TC) A-ADD C-CREATE R-REVISE D-DELETE		REASON: ADDED TO AND REVISED BOM, REVISED CALLOUTS IN DRAWING VIEWS				

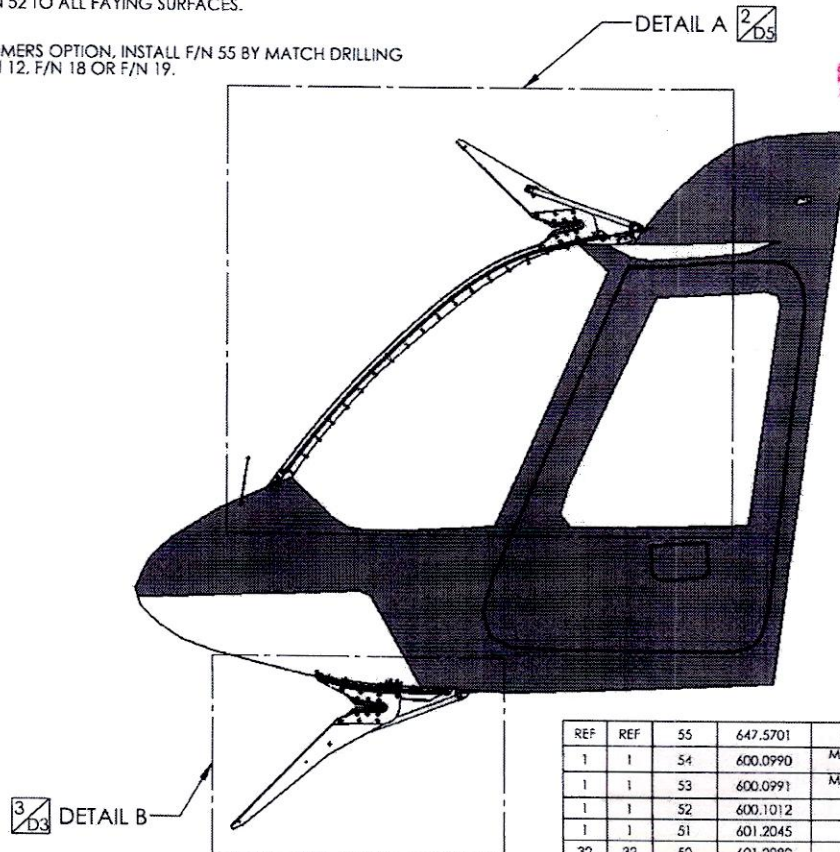
REFERENCE ONLY

58	A	601.1948	4	4	SCREW	MS27039-1-19	
57	A	601.2893	1	1	SCREW	MS27039-0811	
56	A	601.2988	21	21	SCREW	MS27039-0813	
44	R	601.1607	46	46	WASHER	NAS1149F0332P	
43	R	601.2764	36	36	WASHER	NAS1149FN832P	
42	R	601.2943	14	14	LOCKNUT	MS21042-3	
41	R	601.2973	10	10	LOCKNUT	MS21042-08	
38	R	601.3305	4	4	HI-LOK PIN	HL19PB-5-4	
24	D	601.2765	26	26	SCREW	MS27039-0819	
1	R	648.7801	2	2	GROUNDING CABLE ASSY		
F/N	TC	PART NUMBER	2602	2601	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY				
DOCUMENTS EFFECTED:						CHANGE CATEGORY	DER REVIEW REQUIRED
☐ MDL ☒ INSTALL INSTRU ☒ ICA ☒ BOM						☐ MAJOR ☒ MINOR	☐ YES ☒ NO

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NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 51 TO FILL GAPS AND FILLET EDGES
- 2 APPLY F/N 52 TO ALL FAYING SURFACES.
- 3 AT CUSTOMERS OPTION, INSTALL F/N 55 BY MATCH DRILLING ONTO F/N 12, F/N 18 OR F/N 19.



UNINCORPORATED ECN(S)

03049, 03090, 03218,

REFERENCE ONLY

REF	REF	SS	647.5701	GPS MOUNT KIT		3
1	1	54	600.0990	MAGNOBOND 6398		
1	1	53	600.0991	MAGNOBOND 6398		
1	1	52	600.1012	SEALANT		
1	1	51	601.2045	RTV		
32	32	50	601.2980	NUTPLATE RIVET	CCR264SS-3-04	
6	6	49	601.2207	NUTPLATE RIVET	CCR264SS-3-03	
1	1	48	601.2356	NUTPLATE	MS21059L08	
10	10	47	601.1900	NUTPLATE	MS21059-3	
8	8	46	601.2957	NUTPLATE	MS21071L3	
2	2	45	601.2638	WASHER	NAS1149F0432P	
37	37	44	601.1607	WASHER	NAS1149F0332P	
55	55	43	601.2764	WASHER	NAS1149F0332P	
10	10	42	601.2943	LOCKNUT	MS21042-3	
27	27	41	601.2973	LOCKNUT	MS21042-08	
2	2	40	601.2984	INSERT	NAS1635-08	
2602	2601	FIND #	PART #	DESCRIPTION	MATL	SPEC.

REV	DESCRIPTION	DATE	APPROVED
1	LAST PROTOTYPE REVISION PR2		N/C
2	INITIAL RELEASE	10/27/09	P. BRAVO

4	4	39	601.3112	HI-LOK COLLAR	HL70-5	
4	4	38	601.3113	HI-LOK PIN	HL19PB-5-14	
1	1	37	601.2983	RIVET	CR3212-5-4	
38	38	36	601.1039	RIVET	CR3213-4-2	
10	10	35	601.2991	RIVET	CR3213-4-6	
19	19	34	601.0790	RIVET	CR3213-4-3	
7	7	33	601.1915	RIVET	CR3213-4-4	
27	27	32	601.1183	RIVET	CR3213-4-5	
2	2	31	601.1339	RIVET	CR3212-4-6	
4	4	30	601.1065	RIVET	CR3212-4-3	
7	7	29	601.2979	RIVET	CR3213-4-1	
2	2	28	601.3114	SCREW	MS27039-1-06	
2	2	27	601.1621	SCREW	MS27039-1-08	
9	9	26	601.1953	SCREW	MS27039-0812	
1	1	25	601.1949	SCREW	MS27039-1-11	
26	26	24	601.2765	SCREW	MS27039-0819	
2	2	23	601.2535	SCREW	MS24694C9	
4	4	22	601.3069	SCREW	MS27039-1-09	
10	10	21	601.2826	BOLT	AN3-11A	
2	2	20	601.3118	BOLT	AN3-3	
	1	19	646.9602	LOWER CUTTER ASSY HIGH		
1		18	646.9603	LOWER CUTTER ASSY LOW		
6	6	17	647.0112	STRUT BRACKET		
1	1	16	647.0116	DOUBLER		
1	1	15	647.0210	RAIL		
1	1	14	647.0310	CHANNEL		
3	3	13	647.2010	STRUT		
1	1	12	647.4501	CUTTER ASSY		
1	1	11	647.4611	DEFLECTOR		
1	1	10	647.4711	DOUBLER		
1	1	9	647.4712	DOUBLER		
1	1	8	647.4713	BRACKET		
1	1	7	647.4714	CLIP LH		
1	1	6	647.4715	CLIP RH		
2	2	5	647.4719	CLIP FWD		
1	1	4	647.4716	SPACER		
1	1	3	647.4717	CLIP AFT LH		
1	1	2	647.4718	CLIP AFT RH		
1	1	1	647.3201	GROUNDING CABLE ASSY		
			647.2602	407 CABLE CUTTER KIT LOW		
			647.2601	407 CABLE CUTTER KIT HIGH		
2602	2601	FIND #	PART #	DESCRIPTION	MATL	SPEC.

QTY		NEXT ASSY (\$)		ORIGINAL DATE 10-27-09		DRAWN BY: [Signature]		CHECKED BY: [Signature]		APPROVED BY: [Signature]	
APICAL INDUSTRIES		2608 TEMPLE HEIGHTS DR.		OCEANSIDE, CA. 92056-3512		(760) 724-5300		407 CABLE CUTTER KIT		REV. N/C	
SIZE 8		LAGE CODE 107M26		DWG. NO. 647.2600		SCALE NONE		SHEET 1 OF 3			